

1974-79 DISTRIBUTORS & IGNITION SYSTEMS 4-37

Ducellier Single Breaker Point Distributors

Fiat: All Models
Peugeot: 1974-77 All Models
Renault: 1974-78 All Models, 1979 Le Car

DESCRIPTION

Single breaker, fully automatic type distributor. Centrifugal advance is conventional type with weights and springs. Unit may or may not be equipped with vacuum advance device.

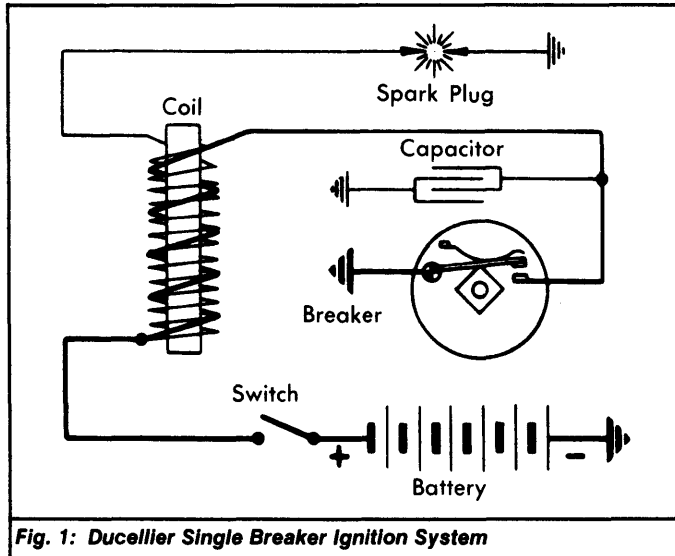


Fig. 1: Ducellier Single Breaker Ignition System

SPECIFICATIONS

POINT GAP & DWELL ANGLE

See appropriate article in TUNE-UP PROCEDURES section.

CENTRIFUGAL & VACUUM ADVANCE

See appropriate DISTRIBUTOR ADVANCE SPECIFICATIONS table in this section.

ADJUSTMENTS

POINT GAP & DWELL ANGLE

With rubbing block on high point of cam lobe, insert a feeler gauge blade between contacts and check reading against specification. To correct, loosen retaining screw and move stationary contact point until correct gap is obtained, then tighten screw. Align points if necessary by bending stationary contact support only. Check dwell angle using a dwell meter; compare indicated reading with specification and correct if necessary.

BREAKER ARM SPRING TENSION

To check spring tension, place hook end of spring scale as close as possible to the movable breaker point. Pull scale at a right angle (90 degrees) to the movable arm and note reading just as points begin to open.

CENTRIFUGAL ADVANCE

Check distributor in test stand according to test equipment manufacturer's instructions. Operate distributor up and down the RPM range and check advance at all RPM settings specified. If not within specifications, adjust by bending spring anchor tabs to modify tension, or replace springs.

VACUUM ADVANCE

With distributor in test stand, check advance at vacuum settings shown in specifications. See appropriate DISTRIBUTOR ADVANCE

SPECIFICATIONS table in this section. Adjust if necessary by altering the adjusting cam setting. See Fig. 2. If tests indicate vacuum diaphragm unit is inoperative, out of calibration, or leaking, replace vacuum unit.

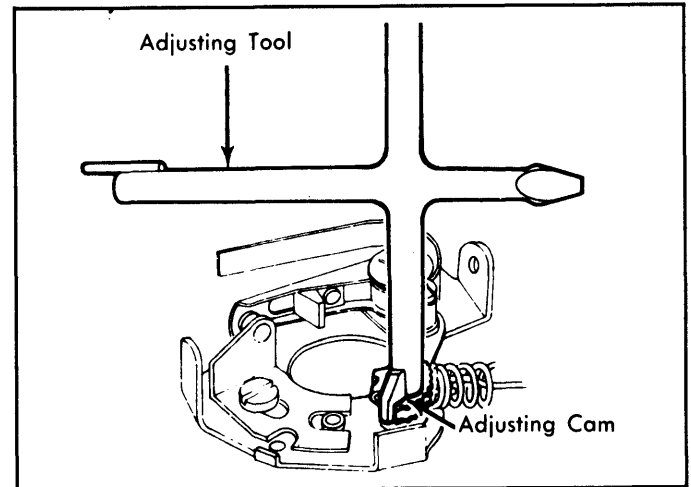


Fig. 2: Adjusting Vacuum Advance (Renault Shown)

OVERHAUL

NOTE: All parts should be marked or set aside separately in groups so that the same combination can be reinstalled.

DISASSEMBLY

Remove rotor, dust cover (if equipped), and condenser. Remove vacuum diaphragm unit (if equipped), then remove breaker plate assembly. Remove pin retaining spring, pin, coupling, and related parts from end of distributor shaft. Remove shaft from distributor housing. Note position of cam, springs and weights on distributor shaft. Then remove cam attaching screw and remove cam, governor springs and weights.

REASSEMBLY

Reassemble distributor in reverse order of disassembly.

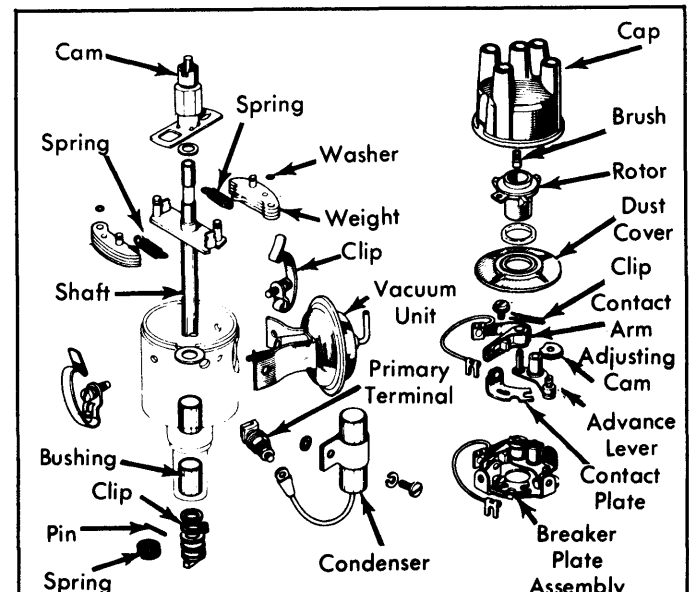


Fig. 3: Ducellier Distributor (Vacuum Advance Version Shown)